

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (currently amended): An oral hygiene product with anti-oxidant and immuno-stimulating activity for human and animal use in a form of a tooth paste, a mouthwash or an animal feed, said product comprising a hydrophilic excipient, a hydrophobic excipient and an active containing melatonin, wherein an amount of the active in the oral hygiene product is in a proportion from 0.1% to 5% of the oral hygiene product by weight.
2. (previously presented): The oral hygiene product according to claim 1, further comprising a colourless, thermostable, non toxic, non volatile, non irritating active auto-oxidant.
3. (previously presented): The oral hygiene product according to claim 1, further comprising a preservative.
4. (previously presented): The oral hygiene product according to claim 1, wherein the melatonin is a synthetic N-acetyl-5-methoxytripamine.
5. (previously presented): The oral hygiene product according to claim 1, further comprising an active auto-oxidant selected from the group consisting of sodium sulphite, sodium bisulfate, ascorbic acid, hydroquinone, nipagin, vitamin E, and vitamin A.
6. (currently amended): The oral hygiene product according to claim 3 ~~claim 1~~, ~~further comprising a~~ wherein the preservative is selected from the group consisting of benzoic acid, salicylic acid, sorbic acid, ~~and essential oils~~.
7. (currently amended): An oral hygiene product with anti-oxidant and immuno-stimulating activity for human and animal use ~~with a melatonin base as an active product~~, said oral hygiene product in a form of a ~~to be used as~~ tooth pastes, a mouthwashes or an animal feeds, said oral

hygiene product comprising a hydrophilic excipient, a hydrophobic excipient, melatonin in a proportion of 0.1% to 5%, and a colourless, thermostable, non-toxic, non-volatile, non-irritating active auto-oxidant an anti-oxidant, and an active comprising 0.1% to 5% of the oral hygiene product by weight, wherein the active consists of melatonin, and wherein the anti-oxidant is present in an effective amount to prevent degradation of the melatonin.

8. (currently amended): An oral hygiene product with anti-oxidant and immuno-stimulating activity for human and animal use, ~~with a melatonin base as an active product to be used as said oral hygiene product in a form of a~~ tooth pastes, a mouthwashes or ~~an~~ animal feeds, said oral hygiene product comprising a hydrophilic excipient, a hydrophobic excipient, melatonin in a proportion of 0.1% to 5%, and a preservative selected from the group consisting of benzoic acid, salicylic acid, sorbic acid, and an essential oils.

9. (withdrawn): A method of treatment of oral illness, the method comprising administering to a damaged mouth tissue of a human or an animal the oral hygiene product of claim 1.

10. (withdrawn): The method of claim 9, wherein the oral hygiene product further comprises a colourless, thermostable, non toxic, non volatile, non irritating active auto-oxidant.

11. (withdrawn): The method of claim 9, wherein the oral hygiene product further comprises a preservative selected from the group consisting of benzoic acid, salicylic acid, sorbic acid, and essential oils.

12. (withdrawn): The method of claim 9, wherein said damaged mouth tissue is produced by a pathology or a surgical intervention.

13. (currently amended): An oral hygiene product with anti-oxidant and immuno-stimulating activity for human and animal use in a form of a tooth paste, a mouthwash or an animal feed, said product comprising a hydrophilic excipient, a hydrophobic excipient and an active wherein an amount of the active in the oral hygiene product is 5% by weight, wherein the active ~~in said product consists essentially of melatonin in a proportion from 0.1% to 5% of the oral hygiene product by weight.~~

14. (previously presented): The product of claim 1 in the form of an animal feed.
15. (new): The oral hygiene product according to claim 1, further comprising an essential oil.
16. (new): The oral hygiene product according to claim 13, further comprising a preservative selected from the group consisting of benzoic acid, salicylic acid and sorbic acid.
17. (new): The oral hygiene product according to claim 13, further comprising an essential oil.